

PARTICLE-MEDIATED TRANSFORMATION

OF ANIMAL SOMATIC CELLS

Abstract of the Disclosure

5 A method is disclosed for the convenient  
transformation of the somatic cells of animals.  
Somatic cell transformation is useful for medical and  
veterinary care of genetic diseases, and other  
therapeutic or animal improvement purposes. The method  
makes use of an electric discharge particle  
10 acceleration apparatus which can inject very small  
particles of gold or other dense material carrying  
genetic constructs coated on them into the living cells  
of animals. The animals not only live, but there is no  
visible bruising or bleeding at the site of the  
15 treatment. The method is particularly adaptable since  
the force of the particle injection in such a spark  
discharge apparatus is adjustable by adjustments to the  
voltage of the spark discharge.

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